

Energy Solutions Career Pathway

MISSOURI ECONOMIC RESEARCH & INFORMATION CENTER
MISSOURI DEPARTMENT OF HIGHER EDUCATION
& WORKFORCE DEVELOPMENT
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What are Career Pathways?

Career Pathways are groups of occupations within a career field. Occupations within a pathway share common skills, knowledge, and interests. The pathways use industry-recognized credentials and are examples of how different levels of training or education can help provide opportunities for career advancement.

Missouri Numbers:



7,159 Employers



119,916 Workers



\$78,151 Average Wage

Why Have a Career in Energy Solutions?

The Energy Solutions industry provides long-term and low-impact solutions to the energy demands of Missouri. The Energy Solutions industry represents 5 percent of total private sector employment, employing nearly 120,000 workers in more than 7,000 establishments in 2022. Employment in this industry has been steadily growing, increasing 1.8 percent per year from 2017 to 2022. Missouri has high employment concentrations in Energy Solutions, particularly in *HVAC Commercial Refrigeration Equipment Manufacturing* and *Other Electrical Equipment and Component Manufacturing*. Average annual wages in this industry are \$78,151, much higher than the state average of \$54,520 for all industries. Many occupations common in this industry, such as engineers and skilled production workers, have high wages.

With new technologies being created, the Energy Solutions industry is constantly working to meet the energy needs of today and tomorrow. There are many opportunities for a meaningful and rewarding career with good pay and advancement in Production and Engineering/Quality Control.

Know the Basics

The Energy Solutions industry deals heavily with engineering, research, and production, so knowledge of mathematics, science, and the ability to use critical and analytical thinking is important. Safety and quality control issues are also a critical part of this industry, along with knowledge of environmental laws and regulations. Soft skills, such as interpersonal skills, professionalism, and dependability are important in all industries and occupations, including Energy Solutions.

Skills needed for Success:

The Energy Solutions industry has a set of industry-wide technical competencies that represent the knowledge and skills needed to be successful in this industry. Knowledge of nuclear and non nuclear energy generation, as well as distribution are among the key skills needed for success.

Who's Hiring in Missouri?

Burns & McDonnell

Thermo Fisher Scientific Inc.

Emerson Electric

Leidos

HNTB



Engineering/ Quality Control

Production

Now

Short-Term On-the-Job Training

See Next and Later categories for job opportunities in Engineering and Quality Control

Helpers-Production Workers
Entry: \$29,980 Average: \$34,370

Certificates: Forklift Operation

Next

Certificate, Associate Degree, Apprenticeship, Moderate- to Long- Term On-the-Job Training

Architectural & Civil Drafters
Entry: \$47,160 Average: \$59,870

Mechanical Drafters
Entry: \$46,380 Average: \$59,520

Electrical Engineering Technicians
Entry: \$52,880 Average: \$69,590

**First-Line Supervisor of Production
& Operating Workers**
Entry: \$48,130 Average: \$64,760

Welders
Entry: \$37,900 Average: \$47,540

Power Plant Operators
Entry: \$67,820 Average: \$84,780

Degrees: Engineering, Drafting and Design
Certificates: CAD Certification, Certified Quality Auditor

Certificates: Forklift Operation, Commercial Driver's License (CDL), Welding, Occupational Safety & Health Administration (OSHA)

Later

Bachelor's Degree or Advanced Degree

Civil Engineers
Entry: \$66,100 Average: \$91,950

Architectural & Engineering Managers
Entry: \$123,510 Average: \$149,720

Electrical Engineers
Entry: \$78,680 Average: \$102,840

Industrial Production Managers
Entry: \$79,400 Average: \$110,040

Degrees: Engineering

Degrees: Engineering, Business Administration & Management

Sources:

Lightcast™

Employment and Training Administration, Competency Model Clearinghouse
2022 Occupational Employment Survey Wage data, U.S. Bureau of Labor Statistics
Quarterly Census of Employment and Wages, U.S. Bureau of Labor Statistics
Top employers data is based on 2022 online job ads



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